

200100060

THE UNIVERD SHAVES OF AMERICA

Fioneer Hi-Bred International, Inc.

DICCES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE RURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT A BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'90B11'

In Testimony Messert, I have hereunto set my hand and caused the seal of the Hant Haristy Frotection Office to be affixed at the City of Washington, D.C. this twenty-third day of March, in the year of our Lord two thousand one.

alank fort

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service f Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(metradacine and information bone	coon barden statement on n	everse)					
1. NAME OF OWNER Pioneer Hi-Bred International, Inc.			:	2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	ION OR	2. VARIETY NAME 90B11.	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 7300 N. W. 62 nd Avenue P. O. Box 100 ⁴ Johnston, IA 50131					5. TELEPHONE (include area code) 515-254-2638		FOR OFFICIAL USE ONLY PVPO NUMBER
domiston, IA 30131				ļ	6. FAX (include area cod 515-253-2288	» 2 (0 1 0 0 0 6 0 FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnorship, association, ota.) 8. IF INCORPORATE OF INCO. STATE OF INCO. Lowa			ORPORATI	ED, GIVE RPORATION	9. DATE OF INCORPORATION 1/18/20 May 6, 1926		1/18/2001
10. NAME AND ADDRESS OF OWNER RIDERIA Schmidt, Ph.D. 7300 NW 62 nd Ave. P.O. Box 1004 Johnston, Iowa 50131-1004	ភ 7 ១	ean Brom 100 NW 6	mert (c 52 nd Ave	,	receive all papers)		FILING AND EXAMINATION FEES: \$ 3,705,00 DATE 1/18/2001 CERTIFICATION FEE 320 DATE 3-15-01
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2288	i	13. E-M schmid	AlL tdh@phibred	. com	14. CRO Soybea	DP KIND (Common Name) n
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. X Exhibit A. Origin and Breeding History of the Variety			on	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act) YES (If "yes", answer items 20 NO (If "no," go to item 22) and 21 below)			
b.	on of Variety ion of the Variety (Optional)			20. DOES THE O	WNER SPECIFY THAT SEED (IMITED AS TO NUMBER OF (CLASSES?	YES NO
f. Voucher Sample (2,500 viable verification that tissue culture w repository)	asis of the Owner's Ownership a untreated seeds or, for tuber propag ill be depositied and maintained in an	gated varieties a approved pu	s, blic		NNER SPECIFY THAT THE CLOON NUMBER OF GENERATION		YES NO
g. LX Filing and Examination Fee (\$ States" (Mail to the Plant Variet	i2,705), made payable to "Treasurer of y Protection Office)	of the United		NUMBER 1, 2,			REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES? YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCU	POSED OF, TRANSFERRED, OR US NO E OF FIRST SALE, DISPOSITION, TO	ED IN THE U.	. S. OR	PROPERTY R YES	TY OR ANY COMPONENT OF IGHT (PLANT BREEDER'S RIC COUNTRY, DATE OF FILING O IUMBER. (Please use space in	GHT OR PAT	NO E AND ASSIGNED
The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the provious Councr(s) is(are) informed that false represents.	ure will be deposited in a public repo er of this sexually reproduced or tube isions of Section 42 of the Płant Varie	ository and ma or propagated oty Protection	nintained for plant variet Act.	r the duration of the	certificate.		
SIGNATURE OF OWNER	milt			SIGNATURE OF C	WNER		
NAME (Please print or type) Daria H. Schmidt	,,			NAME (Please prin	t or type)		
CAPACITY OR TITLE Director, Associative Genetics/Technology Integr	1 7 7	-01		CAPACITY OR TIT			DATE
S&T-470 (2-99) designed by the Plant Variety Pro	otection Office with WordPerfect 6.0a	. Replaces \$	TD-470 (6-!	98) which is obsolet	 e. (See reverse for instr 	uctions and i	nformation collection burden statement)

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 90B11

Variety 90B11 evolved from a 1994 cross of 9007/3/9172//ST2250/9392 G40-3.

It is an F4-derived variety, which was advanced to the F4 generation by modified single-seed descent. The F5 progeny row of 90B11 was grown in a plant row yield trial in the summer of 1996. Subsequently, 90B11 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield and resistance to Roundup labeled herbicides, variety 90B11 was assigned a commercial number.

The purification block was grown during summer 1998 and 60 sublines were bulked for increase. 65 acres of 90B11 (breeders seed) were grown in the summer of 1999. 1502 acres of parent seedstock (foundation seed equivalent) were grown in the summer of 2000 and 42,843 bushels were harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 90B11

Variety 90B11 is most similar to variety 90B31. Both varieties have purple flowers, tawny pubescence, yellow seeds with brown hila, and resistance to Roundup branded herbicides. However, 90B11 is tolerant to Brown Stem Rot while 90B31 is susceptible to Brown Stem Rot.

Variety 90B11 is also similar to ST0136-6 from Stine Seeds. Both varieties have purple flowers. However, 90B11 has tawny pubescence, yellow seeds with brown hila, and resistance to Roundup branded herbicides while ST0136-6 has gray pubescence, yellow seeds with yellow hila, and is susceptible to Roundup branded herbicides.

Variety 90B11 is also similar to OAC Scorpio from Agricultural Canada, Ontario. Both varieties have purple flowers and tawny pubescence. However, 90B11 has brown hila and resistance to Roundup branded herbicides while OAC Scorpio has yellow hila and is susceptible to Roundup branded herbicides.

Variety 90B11 is also similar to Clay from the University of Minnesota. Both varieties have purple flowers. However, 90B11 has tawny pubescence, brown hila, and resistance to Roundup branded herbicides while Clay has gray pubescence, yellow hila, and is susceptible to Roundup branded herbicides.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille , large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

	PPLICANT(S)				FOR OFFICIAL USE ONLY		
	Hi-Bred Internat treet and No. or R.F.D. No., C	·			PVPO 2 MORO 100060		
7300 N. P. O. Bo	W. 62 nd Avenue ox 1004	ey, butt, and zar code,			VARIETY NAME 90B11		
Johnstor	n, IA 50131				TEMPORARY OR EXPERIMENTAL DESIGNATION		
PLEASE F	READ ALL INSTRUC	FIONS CAREFULLY: Plac	e the appropriate numbe	r that describes the var	rietal character of this variety in the boxes		
Place a zer quantitativ	o in the first box (e.g	9 9 9 or	0 9) when num	ber is either 99 or less	or 9 or less respectively. Data for		
plant chara	acters should be based	on a minimum of 100 plants	s. Comparative data sho	uld be determined from	m varieties entered in the same trial. Royal		
		gnized color standard may l			· ·		
		ur variety; lack of response					
	PHOLOGY						
Seed Shap	e:						
$ \begin{array}{ c c c c } \hline 2 & 1 = Spherical \\ (L/W, L/T, and T/W ratios < 1.2) \end{array} $				2 = Spherical-Flattened (L/W ratio > 1.2; L/T ratio < 1.2)			
	3 = Elongate (L/T ratio > 1.3	2; T/W ratio < 1.2)	4 = Elongar (L/T ratio >	te-Flattened > 1.2;T/W ratio >	> 1.2)		
Seed Coat	Color:						
1	1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)		
Seed Coat	Luster:				·		
1	1 = Dull	2 = Shiny					
Seed Size:							
1 5	grams/100 s	eeds					
Hilum Cole	or:						
3	1 = Buff 6 = Black	2 = Yellow 7 = Other (<i>Pleas</i>	3 = Brown e Specify)	4 = Gray	5 = Imperfect Black		

A. MORPHOLOGY (Continued)

Cotyledon Color:

1 = Yellow2 = Green 200100060

Seed Protein Peroxidase Activity:

1 = Low

2 = High

Hypocotyl Color:

1 = Green('Evans' or 'Davis') Bands below Cotyledons

2 = Green with Bronze

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaflet Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Grav

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

1 = 0006 = III

2 = 00

3 = 0

4 = I9 = VI 5 = II

11 = VIII

7 = IV12 = IX 8 = V13 = X

14 = XI

10 = VII15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

6

B. DISEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant $3 = Tolerant$
Fungal			
Brown Spot (Septoria glycines Hem	ımi)		20010006
Frogeye Leaf Spot (Cercospora soji	na Hara)		
0 race 1 0	race 2	0 race 3	0 race 4
0 race 5	race 6	0 Other	(Please Specify)
Target Spot (Corynespora cassiicola	ı (Berk. & Curt.) Wei)	
Downey Mildew (Peronospora trifol	iorum var. manchurio	ca (Naum.) Syd. ex G	äum)
Powdery Mildew (Microsphaera dif	fusa Cke. & Pk.)		
3 Brown Stem Rot (Phialophora grego	ata (Allington & Chan	iberlain) W. Gams.)	
O Stem Canker (Diaporthe phaseoloru	om (Cke. & Ell.) Sacc.	var. caulivora Athow	& Caldwell)
Pod and Stem Blight (Diaporthe pho	seolorum (Cke. & Ell	.) Sacc. var. sojae (Le	ehman) Wehm.)
0 Purple Seed Stain (Cercospora kikud	chii (T. Matsu. & Ton	noyasu) Gardener)	
1 (Corrected plan telephone conversation Rhizoctonia Root Rot (Rhizoctonia s	ŋ Dariz Schmidt, Ph.D. ov solani Kühn)	18/08/2001:81)	
Phytophthora Root Rot (Phytophthora mega:	sperma Drechs. f. sp.	glycinea (Kuan & Er	win))
1 race 1 0 race 8	0 race 15	0 race 22	
	I	0 race 23	
	_ ```	0 race 24	
0 race 4 0 race 11	0 race 18	1 race 25	
1 race 5 0 race 12	0 race 19	0 race 26	
0 race 6 0 race 13	0 race 20	Other (Please Sp	pecify)
1 race 7 0 race 14	0 race 21		
Bud Blight (Tobacco Ringspot Virus	i)		`
1 Yellow Mosaic (Bean Yellow Mosaic	: Virus)		

В.	DISEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
	Cowpea Mosaic (Cowpea Chlorotic V	Virus)		200	100060
	Pod Mottle (Bean Pod Mottle Virus)				
	Seed Mottle (Soybean Mosaic Virus)				
Nem	atode				
Soyb	ean Cyst Nematode (Heterodera glycines	Ichinohe)			
0	race 1 0 race 4	0 race 9			
C	race 2 0 race 5	0 race 1	4		
0	race 3 0 race 6	Other	(Please Specify)		
0	Lance Nematode (Hoplolaimus colum	bus Sher)			
0	Southern Root Knot Nematode (Melo	idogyne incognita (l	Kofoid & White) Chi	itwood)	,
0	Northern Root Knot Nematode (Melo	oidogyne hapla Chit	wood)		
0	Peanut Root Knot Nematode (Meloide	ogyne arenaria (Nea	d) Chitwood)		
0	Reniform Nematode (Rotylenchus ren	iformus Linwood &	Olivera)		
0	Javanese Nematode (Meloidogyne java	unica (Treub) Chitw	rood)		
0	Other Nematode (Please Specify)				
C. F	HYSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Iron Chlorosis on Calcareous Soil				
0	Phosphorus	Other	(Please Specify)		
0	Boron				
0	Aluminum				
0	Salt				
0	Drought				

				200	100060
D. IN	SECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Mexican Bean Beetle (Epilachna v	arivestis Mulsant)			
0	Potato Leaf Hopper (Empoasca fa	bae (Harris))			
	Other (Please Specify)				
E. HI	ERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
1	Metribuzin				
0	Bentazone				
0	Sulfonylurea				
2	Glyphosate				
0	Glufosinate				
0	Pendimethalin				
	Other (Please Specify)				
F. TR	ANSGENIC COMPOSITION	, ,,,,			
or, the	development of the subject variety removal of genetic material from th lease complete the following inform	e application variety?			YES NO
1. Plea	se state the vector's name:				
2. Plea	se state the vector components:				
3. Plea	se describe the genetic material suc	cessfully transferred	into the subject varie	ty:	
4. Plea	se describe the insertion protocol:				·
"Transg This sect	nture citation(s) explaining the four enic Composition" portion of this for ion is fully address in the following pro- zed in Figure 1 and Table 1 on page 1	orm. ublication. Specific det			•
Padgette, 35:1451	S.R. et al. Development, Identification 1461	on, and Characterization	n of a Glyphosate-Tole	erant Soybean Line	1995. Crop Science.
			· · · · · · · · · · · · · · · · · · ·	# C 1 1111 # 181 # 181 # 11 C 111	

200100060

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

Exhibit D. Additional Description of the Variety

Soybean Variety 90B11

In Exhibit C we have identified variety 90B11 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 90B11 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 90B11 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 90B11 is an early Group 0 variety. If Group 0 varieties are divided into tenths, the relative maturity of 90B11 is 0.1.

REPRODUCE LOCALLY. Include form number and edition date on a		FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made i 1974 (5 U.S.C. 552a) and the Paper	n accordance with the Privacy Act of Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.)	421). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER	90B11
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 NW 62 nd Avenue	515-254-2638	515~253~2288
P. O. Box 1004 Johnston, IA 50131-1004	7. PVPQNUMBER 1000	<u> </u>
	and A just	
8. Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.	e appropriate block.	X YES NO
Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	V VEQ. I NO
		X YES NO
10. Is the applicant the original owner? X YES NO	If no, please answer one of the fol	lowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?
YES NO If no, give name of count	ry	
b. If the original rights to variety were owned by a company(ies)	, is (are) the original owner(s) a U.S. ba	sed company?
YES NO If no, give name of count	ry	
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
Please Note:		
Plant variety protection can only be afforded to the owners (not licens 1. If the rights to the variety are owned by the original breeder, that p	-	-
national of a country which affords similar protection to nationals o	f the U.S. for the same genus and speci	es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who did Act for definitions.	rected the final breeding. See Section 4	1(a)(2) ot the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information coinstructions, searching existing data sources, gathering and maintaining the data needed, are	ollection is estimated to average 6 minutes per respo	ase including the time for reviewing the
	The state of the s	
status. (Not all prohibited bases apply to all programs). Persons with disabilities who require	asis of race, color, national origin, sex, religion, age, alternative means for communication of program info	disability, political beliefs, and marital or familial ormation (braille, large print, audiotape, etc.) should
The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the b status. (Not all prohibited bases apply to all programs). Persons with disabilities who require contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washi opportunity employer. TD-470-E (07-97) (Destroy previous editions). Electronic version des	ealternative means for communication of program info	omation (braille, large print, audiotape, etc.) should